

### **ABSTRACT OF THE DISCLOSURE**

A system and related techniques generate and track clinical supply orders, policies, individual or aggregate consumption and automated billing, ordering and fulfillment functions via an integrated clinical platform. A patient supply record may be generated for individual patients which traces the consumption of surgical, disposable, pharmaceutical and other supplies throughout a medical encounter or series of encounters or treatment. Physician supply preferences may be aggregated and analyzed to derive value leverage, for instance through volume pricing or conforming department supplies to standard practices. In implementations the supply selections of a given doctor or department or for specified categories of procedure may be analyzed in terms of ultimate patient outcomes resulting from use of those clinical supplies to identify best results and optimize other aspects of clinical operation. A supply chain engine may communicate with supply tracking resources to automatically trigger orders for different supplies, for instance through enterprise resource planning (ERP) or other channels. In embodiments the supplies and materials so ordered may be automatically fulfilled or delivered from the vendor side, for instance based on quantity threshold or closest or most efficient delivery points.